

SONET: Bitstream - 9.95cm.

IntelliScript

Manual

Calibration

Monitor

Frame

Optics

106

Bitstream-110

10GE-111

SONET-112

Bitstream-130

POS-114

10GE-113

SDH-115

Bitstream-110

POS-114

10GE-113

SDH-115

OTN-117

SONET

Set Up

Bitstream

Definition

118

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300

SONET: Bitstream - 9.95 GHz

Traffic Optics 107

IntelliScript

Manual

Calibration

Monitor

SONET Set Up

Bitstream 10GE LAM

SONET Bitstream Definition

SDH Bitstream

PO5 10GE WAI

PO5 10GE WAI

OTN

SONET Overhead

SONET Path

Frame: STS:

A1	A2	J0	J1
B1	E1	F1	B3
D1	D2	D3	C2
H1	H2	H3	G1
B2	K1	K2	F2
D4	D5	D6	H4
D7	D8	D9	Z3
D10	D11	D12	Z4
S1	M1	E2	Z5

Number of Repetitions per Frame:

Frame 1: 0

Frame 2: 0

Frame 3: 0

Frame 4: 0

Frame 5: 0

Enable Overhead Sequencing (EOS)

Unscramble Payload (CP)

Copy Checked to all STS

SONET

LOF OOF NS-L RD-L RET-L AIS-P RD-P REI-P B1 B2 B3

Reset

Elapsed Time (DD:HH:MM:SS)

BERT Set Up

Pattern Sync BDR 0.00E-0

Error

Gate Type

Progress: 00:00:00

Actual Time

Repeat Gate Control

Start

Vol Unc Bit Errors Omit Errors BERT

Actual Power 20.000

Cal. (dB) 0.0

TX Clock

Internal Clock Source

Laser Status ON

TX Trigger Source

Actual Power 20.000

Cal. (dB) 0.0

Cal. (dB) 0.0

RX Clock

Help

Administration

Localhost

Status 01:35:01 PM

Fig. 3

400

D1

STM Data

1	2	3	4	5	6	7	8	9	10	11	12
100	14	15	16	17	18	19	20	21	22	23	24
13	26	27	28	29	30	31	32	33	34	35	36
25	38	39	40	41	42	43	44	45	46	47	48
37											
49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132
133	134	135	136	137	138	139	140	141	142	143	144
145	146	147	148	149	150	151	152	153	154	155	156
157	158	159	160	161	162	163	164	165	166	167	168
169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192

Mode: ☒ Edit ☐ Highlight

Highlight All

Clear Highlighted

Copy Value to all Highlighted

in Frame:

1

Print

Go Back

Fig. 4

401

Fig. 5

506

Select value

Input

value (Hex Range: 0 to FF)

Decimal	0
Hexadecimal	0
Binary (32-bit)	0

501

502

503

Decimal	A	B	C	D
504	7	8	9	E
	4	5	6	F
	1	2	3	0

Increment

Decrement

Delete

←

OK

Cancel

Fig. 6

600

Select value

Input

value (Binary Range: 0 to 11111111)

Decimal	0
Hexadecimal	0
Binary (32-bit)	0

501

Decimal

502

Hexadecimal

503

Binary

604

0

1

→

Delete

Increment

Decrement

OK

Cancel

700

SONET: Bistream -9.95 dB

IntelliScript

Manual

Calibration

Monitor

Traffic

Optics

107

Optics Options

702

Effective Extinction Ratio (dB)

OMA

Pavg

No Optical Degradation

10G Base-L (Phase Jitter, Amplitude Interference, Filter)

10G Base-E (Phase Jitter, Amplitude Interference, Filter)

Custom:

Degrade OSNR: 55.00 dB

Eye Stress:

Horizontal (Phase Jitter)

Single Point

Amplitude (UI p-p)

Frequency (MHz)

Vertical (Amplitude Interference)

Sine

Square

Amplitude: 0.00 dB

Frequency: 0.00 MHz

Extinction Ratio: 20 dB

Start

Load

Save

Mail Image

Print

Exit

SONET

Protocol

LOF

DOF

AS-L

RD-L

RE-L

AS-P

RD-P

RE-P

B1

B2

B3

Reset

Elapsed Time (DD:HH:MM:SS)

00:00:00:00

Val

Unc

Bit Errors

Omit Errors

BER

Actual Power

Cal. (dB)

λ (nm)

Max Pwr (dbm)

RX Clock

TX Clock

Actual Power

Cal. (dB)

λ (nm)

Max Pwr (dbm)

RX Clock

TX Clock

Actual Power

Cal. (dB)

λ (nm)

Max Pwr (dbm)

RX Clock

Status 03:10:25PM

Fig. 7

SONET: Bitstream - 9.95 GB/s
IntelliScript
Manual
Calibration
Monitor

Traffic
Optics

Bitstream
10GE
SONET
Bitstream
PoS
10GE
SDH
Bitstream
PoS
10GE
OTN

Bitstream
Definition
Bitrate

Bitrate
9.95 GB/s
10.3 GB/s
10.7 GB/s

SONET
LOF
OOF
MS-L
RD-L
RE-L
AS-P
RD-P
RE-P
B1
B2
B3
Reset
Elapsed Time (DD:HH:MM:SS)
00:00:00:00

BER
Set Up
Error

Gate Type
Progress:
Desired Time
Actual Time
Repeat
Gate Control
Start
Vol
Unc
Bit Errors
Omit Errors
BER

TX
Actual Power
Cal. (dB)
λ (nm)
TX Clock
Clock Source
Laser Status
Trigger Source
RX
Actual Power
Cal. (dB)
λ (nm)
Rx Pwr (dBm)
RX Clock

Help
Administration
Local Host

Status 01:53:43PM

Fig. 9

Bitstream - 10.3Gb/s

IntelliScript

Manual

Calibration

Monitor

1106 - Sensitivity Set Up

Device Type APD

Approximate Sensitivity
Sensitivity BER Definition

Pass Criteria:

Value
Uncertainty
Fit Quality

Pretest

Power

Time

IntelliTime

IntelliPass

Max Time

min

Auto

Power

Upper

BER

Lower

dBm

Desired Uncertainty per Point

Max Time per Point

Step size

Points

Start Load Compare Save Mail Image Print Exit

BER Set Up

Gate Type

Program

Actual Time

Gate Control

Start

Val

Bit Errors

BER

TX Cal. (dB)

TX Clock

Laser Status

Trigger Source

Actual Power

Cal. (dB)

λ (nm)

Rx Pwr (dBm)

RX Clock

Help Administration

Localhost

Active? Signal Configuration

Traffic Type

Error Source

current.cfg

Unframed

BitErrors

Add Config Edit Config Rename Config Move Up Move Down Hide Config

1107 Test Information

Serial Number

Code

Compare List

Comments

Action on Test Failure

E-mail Notify Recipients

Audible Alarm

1100

Fig. 11

1101 Status 08:16:35AM
1102
1103
1104
1105

Bitstream - 10.36s

IntelliScript

Manual

Calibration

Monitor

Sensitivity Results

Serial Number: NULL
Code: NULL
Date: Wed Aug 21 2002
Time: 01:37:37 PM

Pass Criteria
Value: -10.00 dBm
Uncertainty: 0.30 dB
Fit Quality: 1.00
BER Definition: 1.00E-10

Comments:

NULL

Legend Save Serial Number Serial (dbm) Sers. Uncert. (dbi) Fil Pass/Fail Signal Contraints currentity

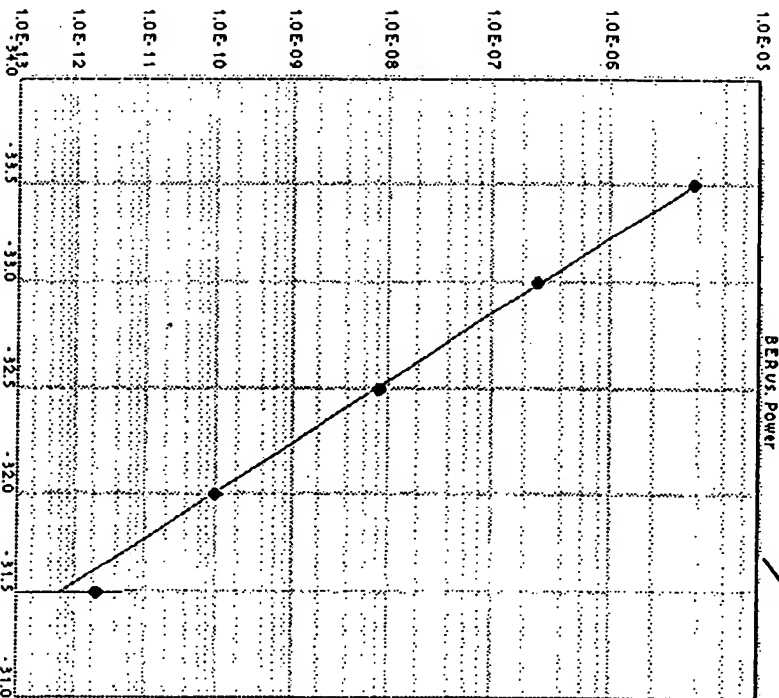
• X: NULL -31.98 -1.54E+01 0.51

1202

1200

1201

Start Save Compare Diagnostics Mail Image Print Exit



BERT Set Up

PatL Sinc BER 0.00E+0
Error ☐ Cal to Ref +10⁻¹⁰

Gate Type ☐ Time 00:00:00.000
Desired Time 00:00:00.000
Actual Time

Program: ☐ Repeat ☐ Gate Control ☐ Start ☐ Val ☐ Unc ☐ Bit Errors ☐ Omit Errors ☐ BER

OUT Actual Power 20000 Cal. (dB) 0.000 λ (nm) 0.0 TX Clock ☐ Clock Source ☐ Laser Status **ON** Trigger Source ☐ Actual Power 20000 Cal. (dB) 0.000 λ (nm) 0.0 Max Pwr (dbm) 0.000 RX Clock ☐

Help Administration Localhost

Status: 02:08:24PM

Fig. 12

SONET: Bitstream - 9.95 Gb/s

IntelliScript

Manual

Calibration

Monitor

S/X Measurement Results

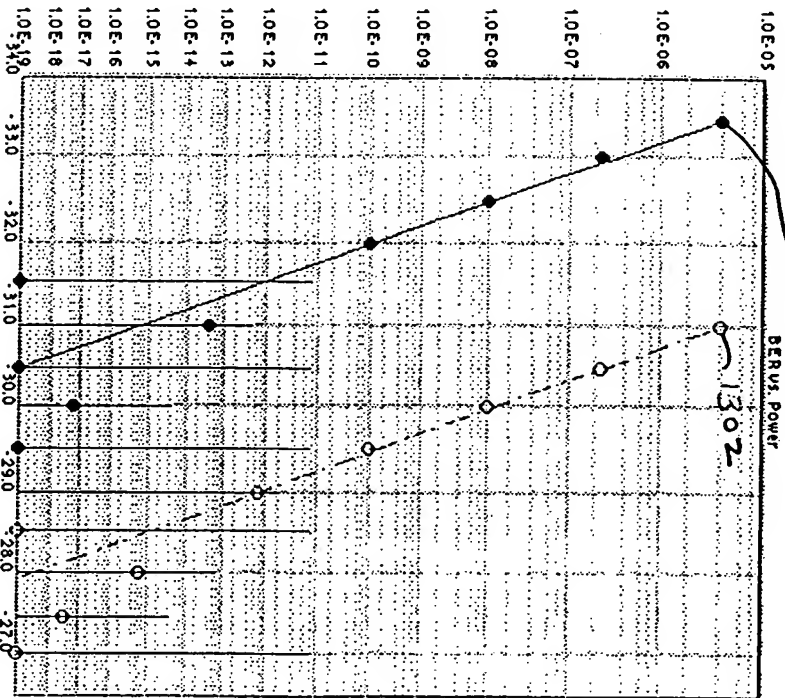
Serial Number: NULL
Code: NULL
Date: Thu Aug 22 2002
Time: 07:47:48 AM

Pass Criteria
Max Value: 10.00 dB
Max Uncertainty: 0.32 dB
BER Definition: 1.0E-06

Comments:
NULL

Legend

Symbol	Save	Serial Number	Penalty (db)	Uncertainty (db)	Pass/Fail	Signal Configuration	Details	Hide Plot
●	<input checked="" type="checkbox"/>	NULL						<input checked="" type="checkbox"/>
○	<input type="checkbox"/>							<input type="checkbox"/>



SONET Protocol

LOF OOF AIS-L RDI-L REI-L AIS-P RDI-P REI-P B1 B2 B3

Reset

Elapsed Time (DD:HH:MM:SS)
00:00:00:00

BER Test Set Up

Pat Sync BER 0.00E+00
Error Ckts to Retn 1.0E+00
Gate Type

Desired Time
00:00:00:00
Actual Time

Repeat Gate Control

Start

Val Unc

Bit Errors

Omrt Errors

BER

Actual Power

Cal. (dB)

λ (nm)

TX Clock

Internal Clock Source

Laser Status

TX Trigger Source

Actual Power

Cal. (dB)

λ (nm)

Rx Pwr (dbm)

RX Clock

Help

Administration

Localhost

Status 07:56:07AM

Fig. 13

1304

101

102

1300

1301

1400

SONET: Bistream - 9.95 ch

IntelliScript

Manual Calibration Monitor

Test Information

Serial Number	NULL	Comments	NULL	Action on Test Failure
Code	NULL			<input checked="" type="checkbox"/> E-mail
Run	NULL			Audible Alarm
Calibration File				Intelligent Fault Finder

IntelliScript Set Up 1401

Active? Saved	Test	Test Configuration	Traffic Type/ Signal Configuration	User Parameters	Print?	Page Break After?	Compare
<input checked="" type="checkbox"/>	Sensitivity	default.pbf	SONETunframed default.cfg		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Overhead	default.pbf	unframed default.cfg		<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL
<input checked="" type="checkbox"/>	SIX Penalty	default.pbf	unframed default.cfg		<input checked="" type="checkbox"/>	<input type="checkbox"/>	NULL

Start Load Add Config Move Up Move Down Hide Config Save Mail Image Print

901

1403

1402

Fig. 14

Help Administration Localhost

Test Selection

S/X Penalty

1502

OK X

1501

Fig. 15

SONET: Bitstream - 9.95 GHz

IntelliScript

Manual

Calibration

Monitor

1600

IntelliScript Results

Serial Number: NULL
Code: NULL
Run: NULL
Calibration File: NULL

Date: Thu Aug 22 2002
Time: 05:06:53 PM

Label	Test Name	Test Configuration	Signal Configuration	Status
1	Sensitivity	default.par	Signal_Conf/default.cfg	Running
2	Overload	default.par	Unframed/default.cfg	Pending
3	S/X Penalty	default.par	Unframed/default.cfg	Pending



1601

Help Administration Localhost

1602

Status: 05:07:29PM Thu 22 Aug 2002

Fig. 16

SONET: Bistream - 9.95 dBm

IntelliScript

Manual

Calibration

Monitor

Sensitivity Set Up

Device Type APD

Approximate Sensitivity -15.00 dBm

Sensitivity BER Definition 1.00E-10

Pass Criteria: Value -10.00 dB

Uncertainty 0.30 dB

Fit Quality 1.00

Pretest Power 0.00 dBm

Time 0.00 sec

IntelliTime Time 0.00 min

IntelliPass Max Time 0.00 min

Auto Power Upper 1.00E-05

BER Lower 1.00E-10

Desired Uncertainty per Point 0.25

Max Time per Point 15 sec

Step size 10000 dB

Points 5

Start Load Compare Save Mail Image Print Exit

Active? Signal Configuration

Traffic Type

Error Source

☒ current.cfg

SONET/Unframed

BIErrors

☒ default.cfg

SONET/Unframed

B3Errors

Add Config Edit Config Rename Config Move Up Move Down Hide Config

Test Information

Serial Number NULL

Code NULL

Compare List NULL

Comments NULL

Action on Test Failure

☐ E-mail ☒ Modify Parameters

☐ Audible Alarm

SONET Protocol

LOF

DOF

AIS-L

RO-L

RE-L

AIS-P

RO-P

RE-P

B1

B2

B3

Reset

Elapsed Time (DD:HH:MM:SS)

00:00:00:00

BER Protocol

Parti Sync

BER

0.00E-03

Error

Gate Type

Progress

100:00:00:00

Desired Time

Actual Time

Gate Control

Start

Vol

Unc

Bit Errors

Om1 Errors

BER

OUT Actual Power

Cal. (dB)

0.0

λ (nm)

TX Clock

Clock Source

ON

Laser Status

TX Trigger Source

RM

Actual Power

Cal. (dB)

λ (nm)

Max Pwr (dbm)

RX Clock

Help

Administration

Localhost

Status 10:31:11AM

Fig. 17

1800

SONET: Bistream - 9.95 Gb/s

IntelliScript

Manual

Calibration

Monitor

Sensitivity Results

Serial Number: NULL

Code: NULL

Date: Fri Aug 23 2002

Time: 10:40:39 AM

Pass Criteria

Value: -10.00

Uncertainty: 0.30

Fit Quality: 1.00

BER Definition: 1.00E-10

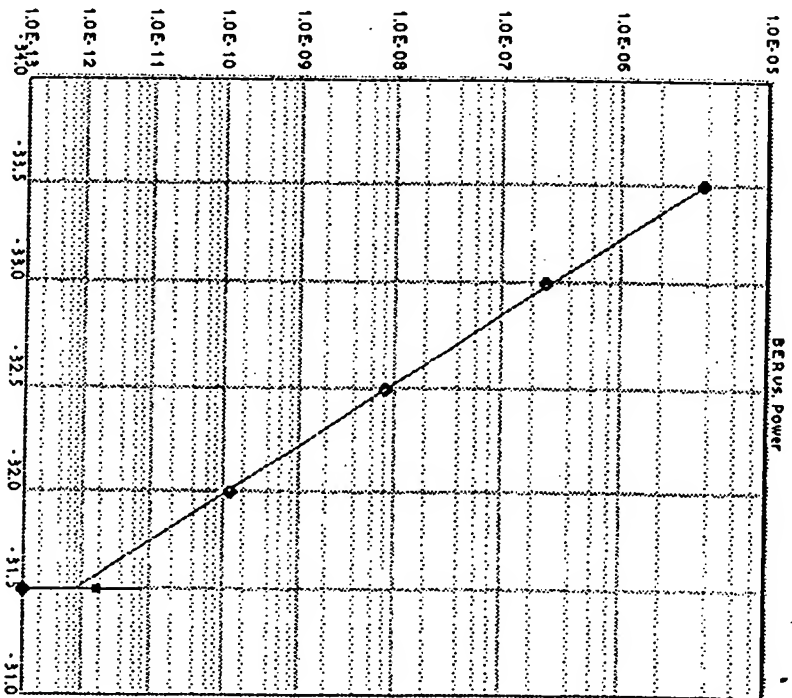
dBm

dB

Comments:

NULL

Legend	Save	Serial Number	Ser. (dbm)	Uncert. (db)	Fit	Pass/Fail	Signal Contractions	Details	Hide Plot
•	<input checked="" type="checkbox"/>	NULL	-31.95	2.34E+03	0.31		currently		
■	<input checked="" type="checkbox"/>	NULL	-31.97	1.09E+05	0.081		default		



Start Save Compare Diagnostics Mail Image Print Exit

SONET Protocol LOF OOF AIS-L RD-L RE-L AIS-P RD-P RE-P B1 B2 B3

Set Up Poll Sync BER Error Gate Type Progress Denied Time Actual Time

Cal. (dB) 0.0 TX Clock Clock Source Laser Status ON Trigger Source Actual Power Cal. (dB) 0.0

Help Administration Local Host Status: 10:43:49AM 1

Fig. 18

1900
Test Details

Date	Fri	Aug	23	2002
Time	10:41:52			
Signal_configuration	Signal_Conf/OC192_common/SONE			
Error_type	PRBS			
Test_type	MANUAL			
Device_type	APD			
Serial_number	NULL			
Code	NULL			
Comparison_list	NULL			
Comments	NULL			
Email	0			
Auto_limits_type	1			
Do_pretest	1			
Pretest_power	-10.000000			
Pretest_time	5.000000			
Approximate_value	-15.000000			
BER_definition	0.000000			
Auto_type	0			
Best_test_time	5.000000			
Pass_value	-10.000000			
Pass_uncertainty	0.300000			
Pass_fit_quality	1.000000			
Number_points	0			
Max_time0	0.000000			
Power_step0	0.000000			
Start_power0	-15.000000			

1902

OK

Fig. 19

1901

Status	11:36:16AM Wed 10 Sep 2003
--------	----------------------------

SONET: Bitstream -9.95 chs

IntelliScript

External Instrument Control

Internal Proc. Ctrl.

Traffic | Optics | Switch Setup | Clock Settings

2100

Bitstream
10GE
SONET

Bitstream
PoS
10GE
SDH

SONET
Bitstream
Definition

☒ PRBS 2⁷

☐ PRBS 2²³

☐ 32n x 0, 32n x 1; n =

☒ PRBS 2⁹

☒ PRBS 2³¹

User File:

☐ 1s Only

☐ Alternate 1s and 0s

☐ n x 0, n x 1; n = (1 ≤ n < 16)

☐ PRBS 2¹¹

☐ PRBS 2¹⁵

☐ PRBS 2²⁰

☐ PRBS 2²¹

☐ Invert TX

☐ Invert RX

☐ Inject Errors 10⁻ -3

Start

Load

Save

Save JPG

Print

Exit

Elapsed Time (DD:HH:MM:SS)
00:00:01:42

SONET
Protocol

LOF OOF AIS-L AIS-H RDI-L RDI-H REI-P B1 B2 B3

Reset

Elapsed Time (DD:HH:MM:SS)
00:00:01:42

SONET
BERT

Setup

Click to Reset

Gate Type

Progress

Actual Time

Accum Totals
Shift States
Gate Control

Start

RXCOR/B2RT RXES-SRT RXESRT

OUT

Actual Power

OMA

Calibration

A

None

Optical
Degrade

TX Clock

Laser Status

ON

TX
Trigger Source

from
OUT

Actual Power

OMA

Calibration

A

9.00

ER (dB)

RX Clock

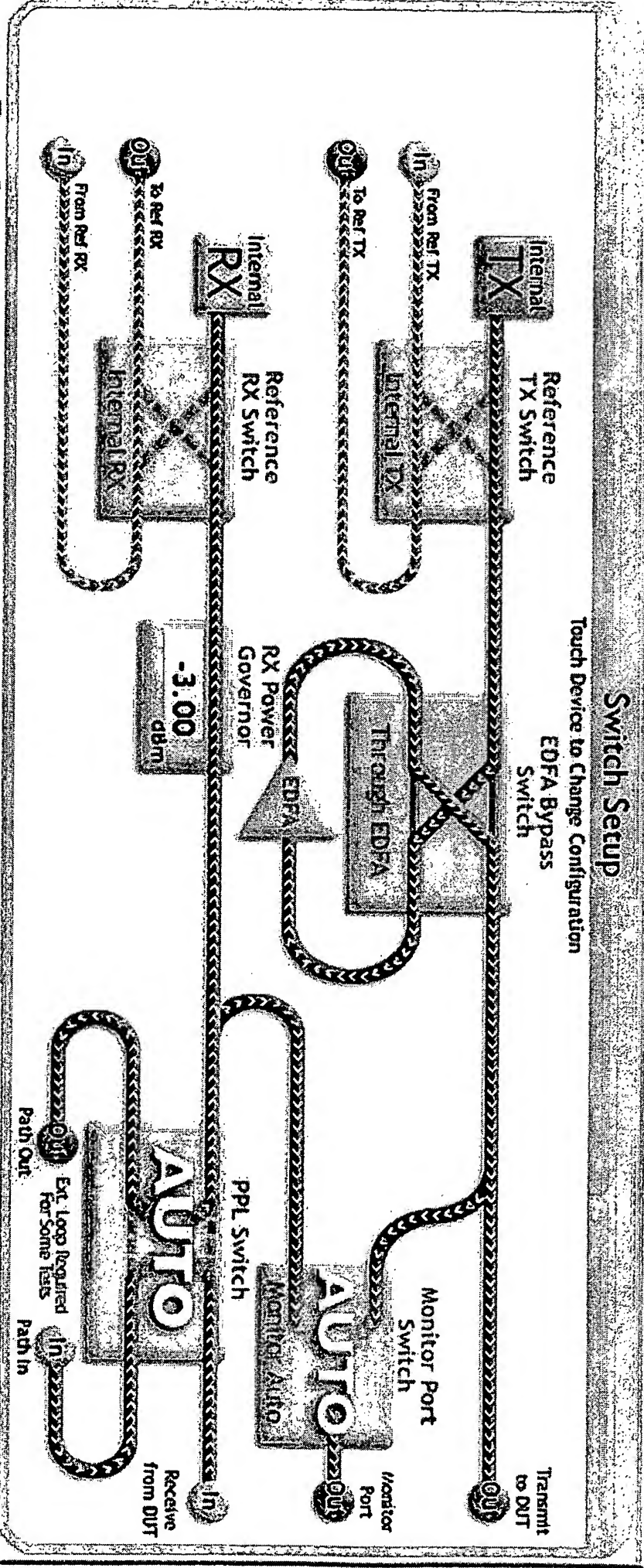
HELP

ADMIN

localhost

Status

11:37:48AM Wed 10 Sep 2003



Start

Load

Save

Save JPG

Print

Exit

Apply Now

SONET

Protocol

LOF

00F

ASL

RDIL

REL

ASLP

RDLP

RELP

B1

B2

B3

Reset

Elapsed Time (DD:HH:MM:SS)

00:00:02:10

Instantaneous BERT

Setup

Sync BER

Error

1

Gate Type

Progress

Actual Time

Accum Totals and Rates

Gate Control

Start

Size

Rx Cor/B2RT

Rx ES SRT

Rx ESRT

Out

Actual Power

0.00

0.00

1550

None

TX Clock

ON

TX Trigger Source

Actual Power

0.00

0.00

1550

9.00

Rx Clock

HELP

ADMIN

localhost

Status

11:38:16AM Wed 10 Sep 2003

SONET: Bitstream - 9.95Gb/s

IntelliScript

External Instrument Control

Internal Proc. Ctrl

Traffic | Optics | Switch Setup | Clock Settings |

2400

Fig. 24

Clock Settings

Clock Source: ☒ Internal

☐ External
Must attach external clock of appropriate rate if this option is selected.

☐ RX Derived

Clock Rate: ☒ 9.95328

☐ 10.3125

☐ 10.70922532

Bit Rate (Gb/s)

Standard Protocol

External Clock Rate (MHz) +/- 20ppm

SONET/SDH

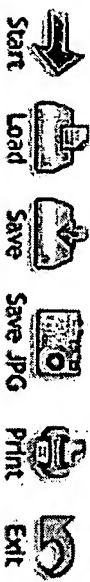
155.52

10GE LAN

161.1328

G.709

167.3316



Apply Now

SONET
Portocol

LOF

COF

AIS-L

RDI-L

REH-L

AIS-P

RDI-P

REI-P

B1

B2

B3

Reset

Elapsed Time (DD:HH:MM:SS)

00:00:02:27

SONET
BERT

Setup

Sync

BER

Efficiency

Gate to Power

Gate Type

Progress

Actual Time

Accum. Totals

Gate Control

Start

Stop

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Gate

Out
Actual Power

-9.00

-6.70

0.00

1550

None

Optical

Depgrade

TX Clock

Laser Status

ON

TX

Trigger Source

In

Actual Power

-9.00

-6.70

0.00

1550

9.00

ER (dB)

RX Clock

HELP ADMIN localhost

Status

11:38:33AM Wed 10 Sep 2003

SONET: Bitstream - 9.95 Gbit/s

IntelliScript

External Instrument Control

Internal Proc. Ctrl.

2500

Fig. 25

Test Information

Comments

Circadiant Setup

Action on Test Failure

E-mail Modify Recipients

Audible Alarm

Stop Test

Serial Number a6636136

Code 3306

Run Run1

Calibration File 20030904_15_39

IntelliScript Setup

Active?

Action

Configuration

Traffic Type/
Signal Configuration

User Parameters

Print?

Page Break
After?

Compute

setCurrentTraffic

SONET/Unframed
default

Sensitivity

Sensitivity
20030908_15_49

Sensitivity

Sensitivity
20030908_15_49

expenalty

SDX Penalty
default

beos

BER vs OSNR
20030910_11_55

BER vs OSNR

BER vs OSNR
20030910_11_55

BER vs OSNR

BER vs OSNR
20030910_11_55

SONET/Unframed
current

SONET/Unframed
20030910_11_55

NULL

NULL

NULL



Out

-9.00

-6.70

0.00

1.550

None

ON

TX

Actual Power

-9.00

-6.70

0.00

1.550

9.00

Actual Power

Optical
Degrade

TX Clock

Laser Status

Trigger Source

Actual Power

Optical
Degrade

TX Clock

Laser Status

Trigger Source

Actual Power

Optical
Degrade

TX Clock

Laser Status

HELP

ADMIN

localhost

Status

11:57:08AM Wed 10 Sep 2003